

Serial No. : New Application  
Filed : Concurrently Herewith

IN THE ABSTRACT:

Please delete the abstract of the disclosure, and add the following new abstract:

A ball endmill having (a) a cylindrical tool body and (b) ball-nosed end cutting edges each of which includes (b-1) a first portion provided by a radially inner portion of each ball-nosed end cutting edge, and (b-2) a second portion provided by a radially outer portion of each ball-nosed end cutting edge. The first portion is defined by a circular arc which is convex in a direction of rotation of the tool body and which has a first radius of curvature as measured in a distal end view perpendicular to the axis. A ratio of the first radius of curvature to an outside diameter of the cylindrical body is not smaller than 0.025 and not larger than 0.10. The second portion is defined by a circular arc which is convex in the direction of the rotation of the tool body and which has a second radius of curvature as measured in the distal end view. The second radius of curvature is larger than the first radius of curvature.